

IN THE CLAIMS

Claims 1-18 (Canceled)

19. (Currently Amended) An integrated process for painting a substrate that comprises at least one metal part and at least one plastic part,

- a) wherein the substrate comprises at least one of i) an automobile body ii) an automobile cabin, iii) a commercial vehicle body, and/or iv) a commercial vehicle cabin, and optionally further comprise at least one of i) an automobile body replacement part, ii) an automobile cabin replacement part, iii) an automobile body add-on part, iv) an automobile cabin add-on part, v) a commercial vehicle body replacement part, vi) a commercial vehicle cabin replacement part, vii) commercial vehicle body add-on part, and/or viii) a commercial vehicle cabin add-on part;
- b) wherein the at least one metal part of the substrate is coated with an electrocoat material to form an electrocoat film and the electrocoat film is cured thermally to give a corrosion-inhibiting electrocoat;
- c) wherein the electrocoated at least one metal part of the substrate is integrated with the at least one plastic part of the substrate to form an integrated metal-plastic substrate,
- d) wherein one of
 - i) the at least one plastic part has no primer on its surface, ~~and the electrocoat film on the at least one metal part was thermally cured at a temperature of less than 100°C,~~
 - ii) the at least one plastic part, on its surface, comprises a primer comprising an electrically conductive aqueous primer coating that is cured thermally at a temperature $\leq 100^{\circ}\text{C}$, and/or
 - iii) the at least one plastic part, on its surface, comprises a partially dried but not fully cured electrically conductive aqueous primer film;

comprising

- 1) coating the integrated metal-plastic substrate with an aqueous primer, wherein coating comprises one of
 - a) coating uniformly, when the at least one plastic part has no primer, the integrated metal-plastic substrate with an electrically conductive aqueous primer and curing the resulting electrically conductive aqueous primer film at a temperature $\leq 100^{\circ}\text{C}$ to give a two-coat primer system comprising electrocoat and electrically conductive primer coat on the at least one metal part and a single-coat primer system comprising electrically conductive primer coat on the at least one plastic part, wherein the electrically conductive aqueous primer comprises a component I comprising at least one aqueous polyurethane dispersion and at least one electrically conductive pigment, and at least one component II comprising at least one polyisocyanate;
 - b) coating uniformly, when the at least one plastic part has the primer comprising an electrically conductive aqueous primer coating, the integrated metal-plastic substrate with an aqueous primer having a color that is matched to a color of an aqueous basecoat material and curing the resulting bright aqueous primer film at a temperature $\leq 100^{\circ}\text{C}$ to give a two-coat primer system comprising electrically conductive primer coat and a primer coat having a color that is matched to a color of a basecoat on the at least one plastic part and a two-coat primer system comprising electrocoat and a primer coat having a color that is matched to a color of a basecoat on the at least one metal part;
- and/or
- c) coating uniformly, when the at least one plastic part has the partially dried electrically conductive aqueous primer film, the integrated metal-plastic substrate, wet-on-wet in terms of the at least one plastic part, with an aqueous primer having a color that is matched to a color of an aqueous basecoat material, and jointly curing the electrically conductive aqueous primer film and the aqueous primer film having a color that is matched to a color of a basecoat at a temperature $\leq 100^{\circ}\text{C}$ to give a two-coat primer

system comprising electrically conductive primer coat and a primer coat having a color that is matched to a color of a basecoat on the at least one plastic part and a two-coat primer system comprising electrocoat and a primer coat having a color that is matched to a color of a basecoat on the at least one metal part;

- 2) one of
 - a) applying the aqueous basecoat material uniformly to the primer systems of 1) b) or 1)c) and partially drying without curing the resulting aqueous basecoat film, wherein the basecoat material is one of i) a color basecoat material, ii) an effect basecoat material, and/or iii) a color and effect basecoat material, or
 - b) applying an aqueous basecoat material uniformly to the primer systems of 1) a) and partially drying without curing the resulting aqueous basecoat film, wherein the basecoat material is one of i) a color basecoat material, ii) an effect basecoat material, or iii) a color and effect basecoat material;
 - 3) applying wet-on-wet at least one two-component clearcoat material to the partially dried aqueous basecoat film to give at least one clearcoat film; and
 - 4) jointly curing at temperatures $\leq 100^{\circ}\text{C}$, by one of i) thermally and ii) thermally and with actinic radiation, the partially dried aqueous basecoat film and the at least one clearcoat film to give an integrated multicoat paint system, wherein the multicoat paint system is one of i) a multicoat color paint system, ii) a multicoat effect paint system, and iii) a multicoat color and effect paint system.
20. (Previously Presented) The process of claim 19, wherein the integrated metal-plastic substrate is formed by the process comprising precisely positioning the at least one plastic part of the substrate on an assembly stage, and placing the at least one electrocoated metal part of the substrate on the assembly stage .
21. (Currently Amended) The process of claim 19 further comprising in the coating step, where the at least one plastic part has no primer, one of:

- a) applying an aqueous primer having a color that is matched to a color of an aqueous basecoat material uniformly to the cured electrically conductive primer coat and curing the resulting aqueous primer coat thermally at a temperature $\leq 100^{\circ}\text{C}$

and

- b) ~~not prior to curing the electrically conductive aqueous primer, but instead partially~~ drying the electrically conductive aqueous primer ~~film~~ and applying an aqueous primer having a color that is matched to a color of an aqueous basecoat material wet-on-wet to the partially dried electrically conductive aqueous primer film, and then jointly curing at a temperature $\leq 100^{\circ}\text{C}$ the electrically conductive aqueous primer film and the resulting aqueous primer film having a color that is matched to a color of an aqueous basecoat material,

so as to result in a three-coat primer system comprising electrocoat, electrically conductive primer coat, and primer coat having a color that is matched to a color of a basecoat on the at least one metal part and a two-coat primer system comprising electrically conductive primer coat and primer coat having a color that is matched to a color of a basecoat on the at least one plastic part.

22. (Previously Presented) The process of claim 19, wherein the electrocoat material comprises a lead-free cathodically depositable electrocoat material comprising at least one epoxy-amine adduct.
23. (Currently Amended) The process of claim 19, wherein the electrically conductive aqueous primer of d) ii), and/or d) iii), ~~and 1) a)~~ each comprise a component I comprising at least one aqueous polyurethane dispersion and at least one electrically conductive pigment, and at least one component II comprising at least one polyisocyanate.
24. (Previously Presented) The process of claim 23, wherein the electrically conductive pigment comprises carbon black.

25. (Previously Presented) The process of claim 19, wherein the aqueous primer having a color that is matched to a color of an aqueous basecoat material of 1) b) and 1) c) each comprise a component I comprising at least one hydroxyl-containing binder in dispersion or solution in water and at least one bright pigment, and a component II comprises at least one polyisocyanate.
26. (Previously Presented) The process of claim 25, wherein the hydroxyl-containing binder comprises at least one of a polyester, a polyacrylate, a polyurethane, an acrylated polyester, and an acrylated polyurethane.
27. (Previously Presented) The process of claim 19, wherein the aqueous basecoat material comprises at least one hydroxyl-containing binder in dispersion or solution in water and at least one of a color pigment, an effect pigment, and a color and effect pigment.
28. (Previously Presented) The process of claim 27, wherein the aqueous basecoat material comprises a hydroxyl-containing binder comprising at least one of a polyurethane and an acrylated polyurethane.
29. (Previously Presented) The process of claim 27, wherein the aqueous basecoat material further comprises at least one of a hydroxyl-containing polyacrylate, a hydroxyl-containing polyester, and a hydroxyl-containing acrylated polyester.
30. (Previously Presented) The process of claim 19, wherein the aqueous basecoat material comprises at least one crosslinking agent.
31. (Previously Presented) The process of claim 19, wherein the two-component clearcoat material comprises a component I having at least one hydroxyl-containing binder and a component II having at least one polyisocyanate.

32. (Previously Presented) The process of claim 19, wherein the two-component clearcoat material is curable both thermally and with actinic radiation.
33. (Previously Presented) The process of claim 19, wherein the cured two-component clearcoat material is overcoated with a scratch-resistant clearcoat.
34. (Currently Amended) The substrate formed by the process of claim 19 in part 1) b) or 1) e).
35. (Previously Presented) An integrated multicoat paint system on an integrated metal-plastic substrate that comprises at least one metal part and at least one plastic part,
- a) wherein the multicoat paint system is one of i) a multicoat color paint system, ii) a multicoat effect paint system, and iii) a multicoat color and effect paint system;
 - b) wherein the substrate comprises at least one of i) an automobile body ii) an automobile cabin, iii) a commercial vehicle body, and/or iv) a commercial vehicle cabin, and optionally further comprise at least one of i) an automobile body replacement part, ii) an automobile cabin replacement part, iii) an automobile body add-on part, iv) an automobile cabin add-on part, v) a commercial vehicle body replacement part, vi) a commercial vehicle cabin replacement part, vii) a commercial vehicle body add-on part, and/or viii) a commercial vehicle cabin add-on part;
- comprising coats lying atop one another in sequence:
- 1) a primer system comprising:
 - a. on the at least one metal part, a metal primer system comprising a cathodically or anodically deposited and thermally cured electrocoat and at least one of an electrically conductive primer coat and a primer coat having a color that is matched to a color of a basecoat on the cured electrocoat, wherein the entire surface of the at least one metal part is coated with the metal primer system, and
 - b. on the at least one plastic part, a plastic primer system comprising an electrically conductive primer coat on the plastic part and a primer coat

having a color that is matched to a color of a basecoat on the electrically conductive primer coat, wherein the entire surface of the at least one plastic part is coated with the plastic primer system,

- 2) on the primer system, the basecoat of 1) a) or 1) b), wherein the basecoat is one of i) a color basecoat, ii) an effect basecoat, and iii) a color and effect basecoat, and
 - 4) on the basecoat, at least one clearcoat.
36. (Previously Presented) The integrated multicoat paint system of claim 35, wherein the clearcoat comprises a scratch-resistant clearcoat.
37. (Canceled)